JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD - 289347	1 OF 11	01

CONTRACTOR : ABB CONTRACTING CO. LTD.

CUSTOMER : NATIONAL GRID - SAUDI ARABIA / SEC-COA

PROJECT : REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

CONTRACT NO. : -

PLANT NO. : C424

JOB ORDER NO.: 11131061/00

TITLE. : SCHEMATIC DIAGRAMS

NEW 125V DC DISTRIBUTION BOARD

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE - 289148
ONE LINE DIGRAM - DC AUXILIARY SYSTEM	CA - 289211
-	-
-	-

AS-BUILT BY _____ DATE _____

REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.
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01	25.11.13	AMN	ISSUED FOR APPROVAL	BR	BR	DA
00	05.05.13	MAL	ISSUED FOR APPROVAL	BR	BR	DA

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DATE STARTED 05.05.2013 DATE COMPLETED -

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COVER SHEET

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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SEC_TOC

SHEET	DESCRIPTION	REVISION	EDITED BY	DATE
1	COVER SHEET	01	SAMEANB	25-Nov.2013
2	TABLE OF CONTENTS	01	SAMEANB	25-Nov.2013
3	INCOMER-1 METERING CIRCUIT	01	SAMEANB	25-Nov.2013
4	AC AUX. SUPPLY DISTRIBUTION	01	SAMEANB	25-Nov.2013
5	SA1 FEEDER ALARAM CIRCUIT	01	SAMEANB	25-Nov.2013
6	SA1 FEEDER ALARAM CIRCUIT	01	SAMEANB	25-Nov.2013
7	SA1 FEEDER ALARAM CIRCUIT	01	SAMEANB	25-Nov.2013
8	SA2 FEEDER ALARAM CIRCUIT	01	SAMEANB	25-Nov.2013
9	SA2 FEEDER ALARAM CIRCUIT	01	SAMEANB	25-Nov.2013
10	SA2 FEEDER ALARAM CIRCUIT	01	SAMEANB	25-Nov.2013
11	SPACE HEATER & LIGHTING CIRCUIT	01	SAMEANB	25-Nov.2013

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE - 289148
DC AUXILIARY ONE LINE DIAGRAM	CA - 289211

AS-BUILT BY _____ DATE _____

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TABLE OF CONTENTS

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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+SA.1

125V DC, 150A, 2W 40°C, 15KA @ 1S

-P → BUS A(+)

-N → -BUS A(-)

-SR1
100A/1A
60mv
CURRENT MEASURING
SHUNT

102 / 103

-P1
0-100A
A

-F11
2P,2A

BUS1A:(+) 101 105

BUS1A:(-) 104 106

-P2
0-150V
V

-Q101
XT2N 160
In=63A, 3P
TMA
INCOMER-1 BREAKER

-7/2B

(+) (-)
INCOMER-1

NOTES

REFERENCE DRAWINGS

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DRAWING CONTROL SHEET	CE - 289148
DC AUXILIARY ONE LINE DIAGRAM	CA - 289211

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INCOMER-1 METERING CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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01	4 OF 11	CD - 289347	C424	P	11131061/00
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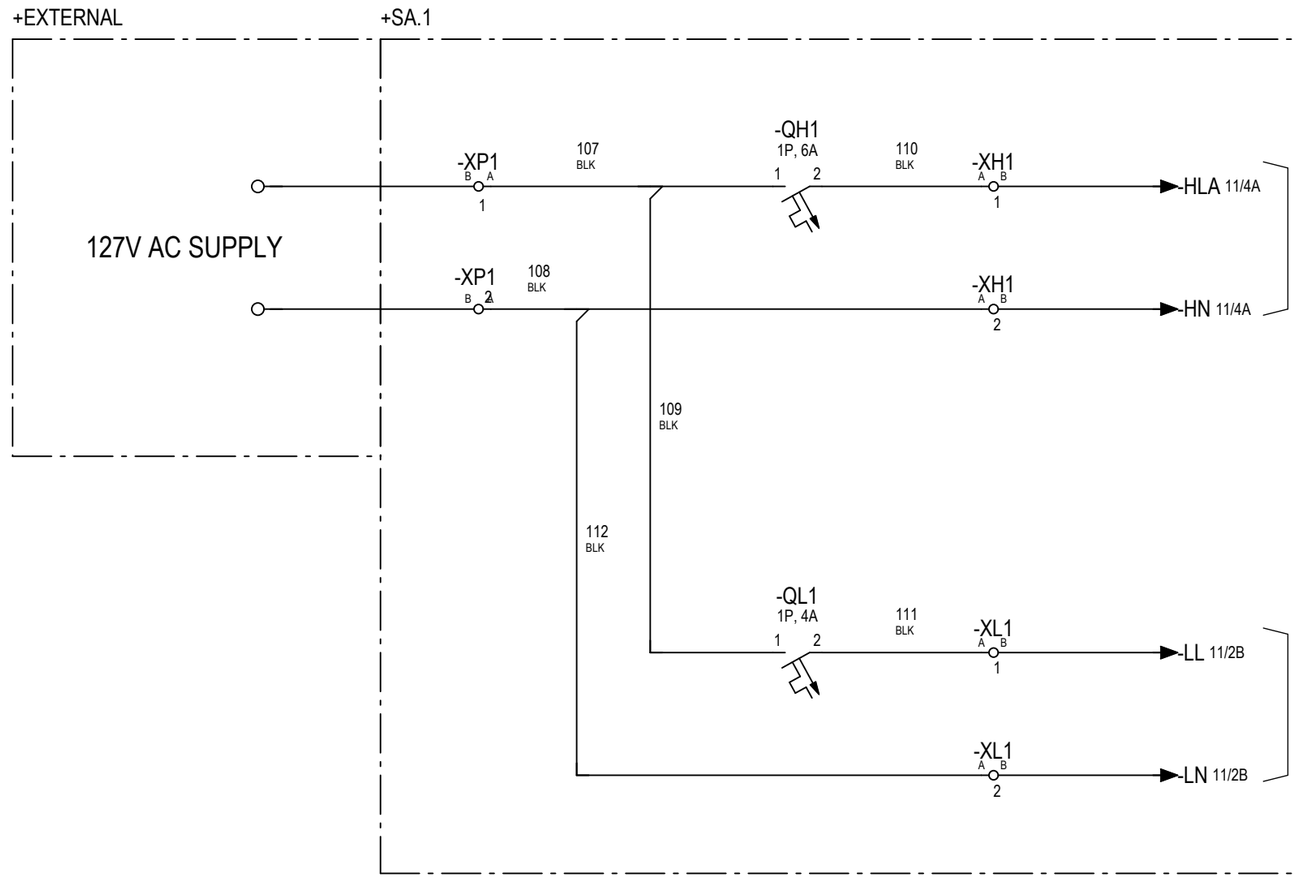

SPACE HEATER SUPPLY

CUBICLE LIGHTING SUPPLY

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE - 289148
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AS-BUILT BY _____ DATE _____

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AC AUX. SUPPLY DISTRIBUTION

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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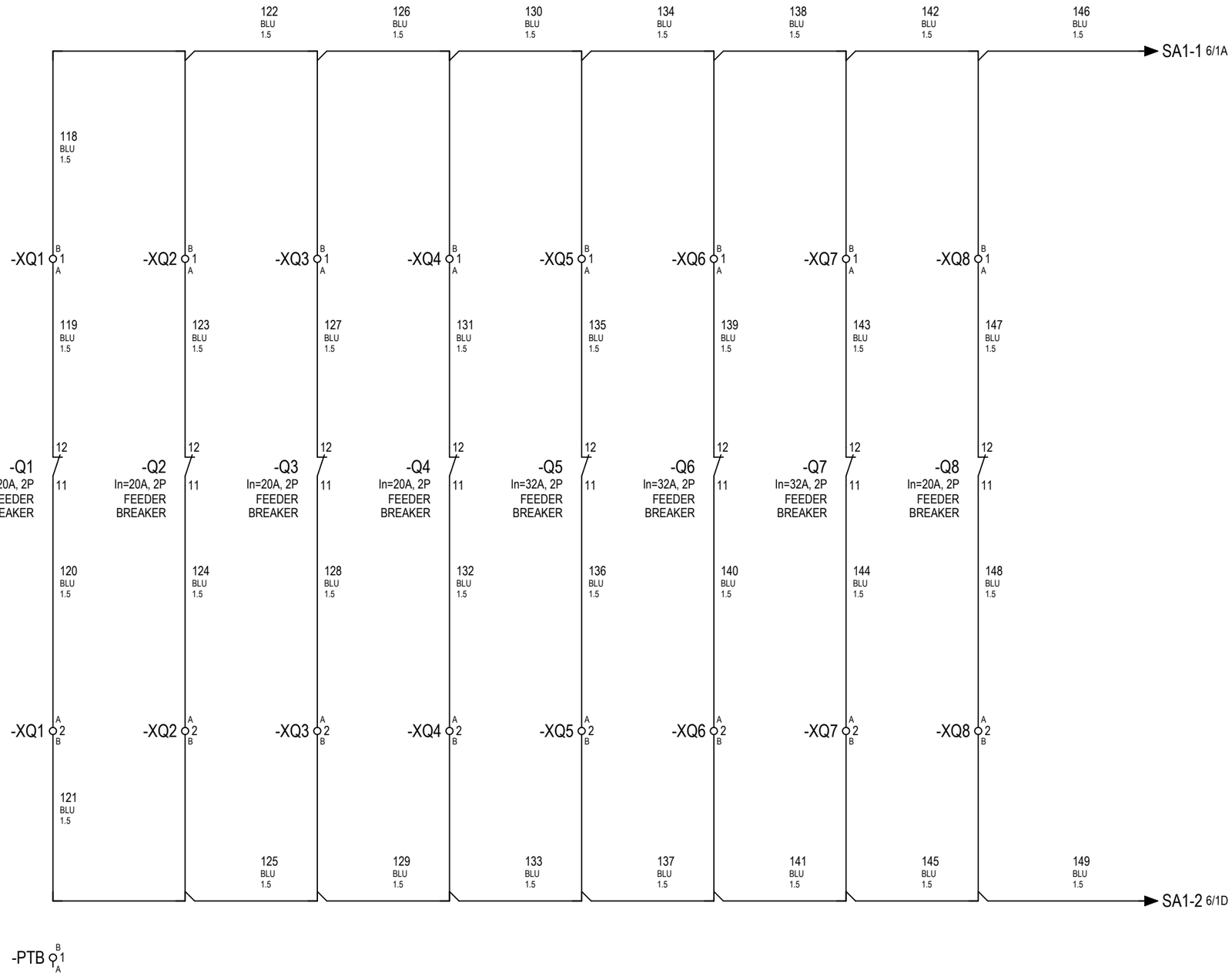
+SA.1



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DC AUXILIARY ONE LINE DIAGRAM	CA - 289211

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SA1 FEEDER ALARAM CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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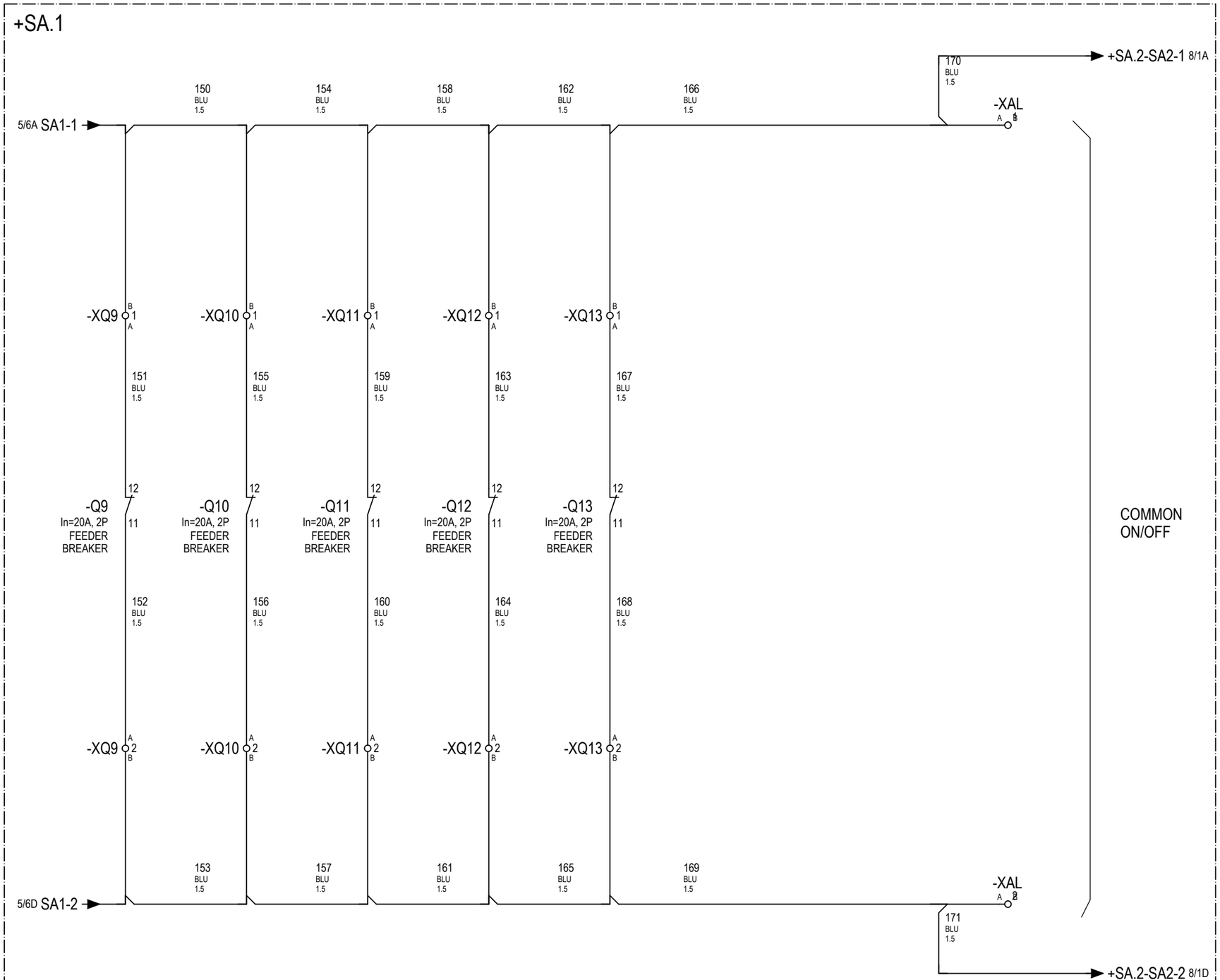

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SA1 FEEDER ALARAM CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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01	7 OF 11	CD - 289347	C424	P	11131061/00
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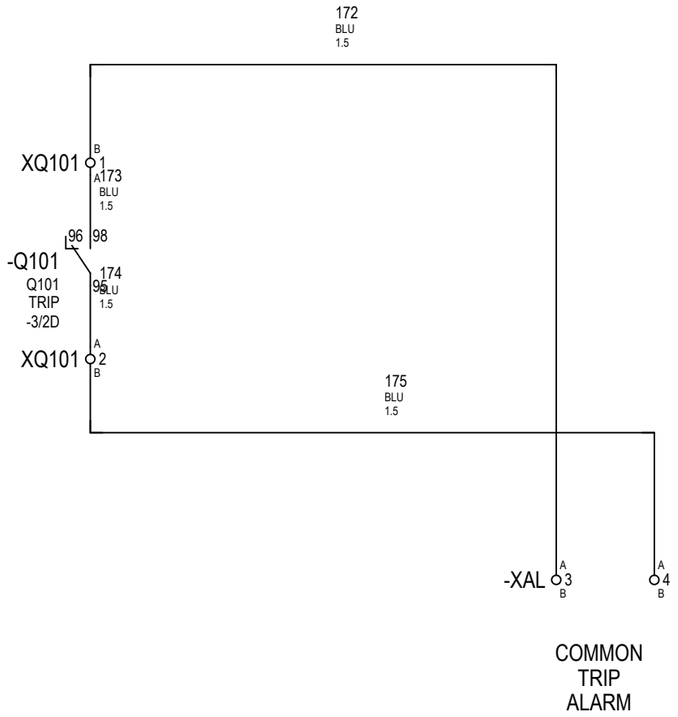

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DRAWING CONTROL SHEET	CE - 289148
DC AUXILIARY ONE LINE DIAGRAM	CA - 289211

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BY _____ DATE _____

COMMON ALARM CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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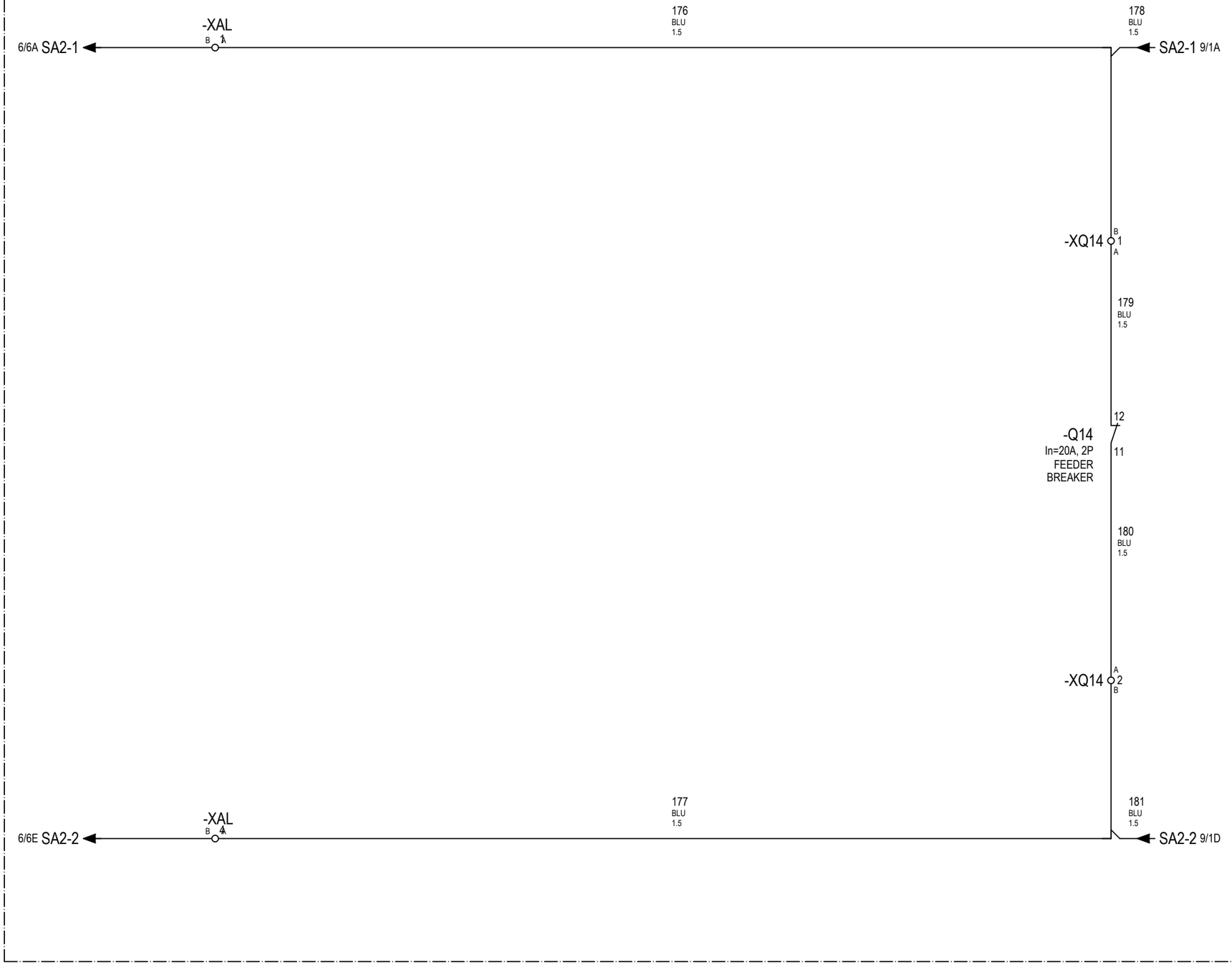
+SA.2



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SA2 FEEDER ALARAM CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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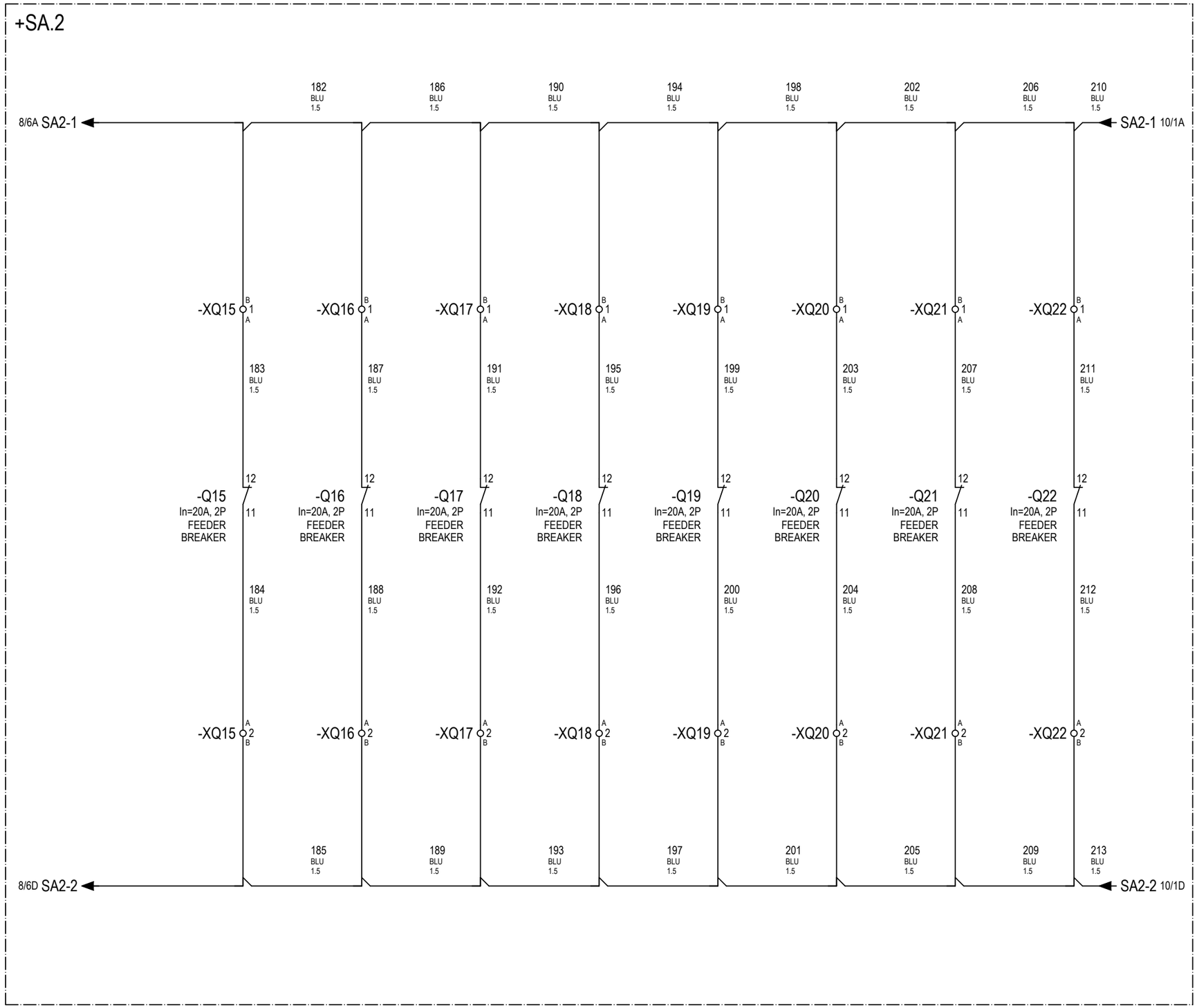

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SA2 FEEDER ALARAM CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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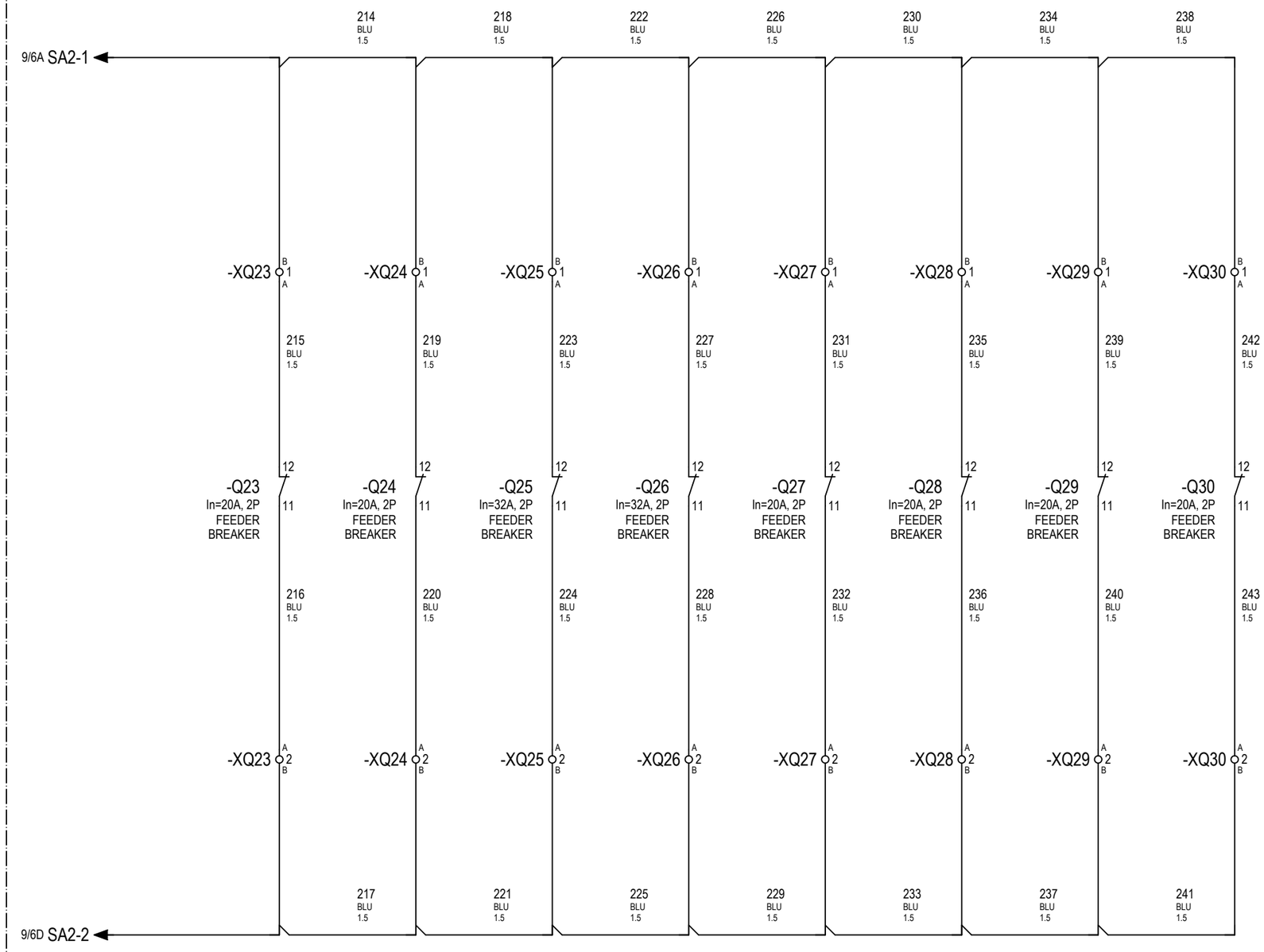

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SA2 FEEDER ALARAM CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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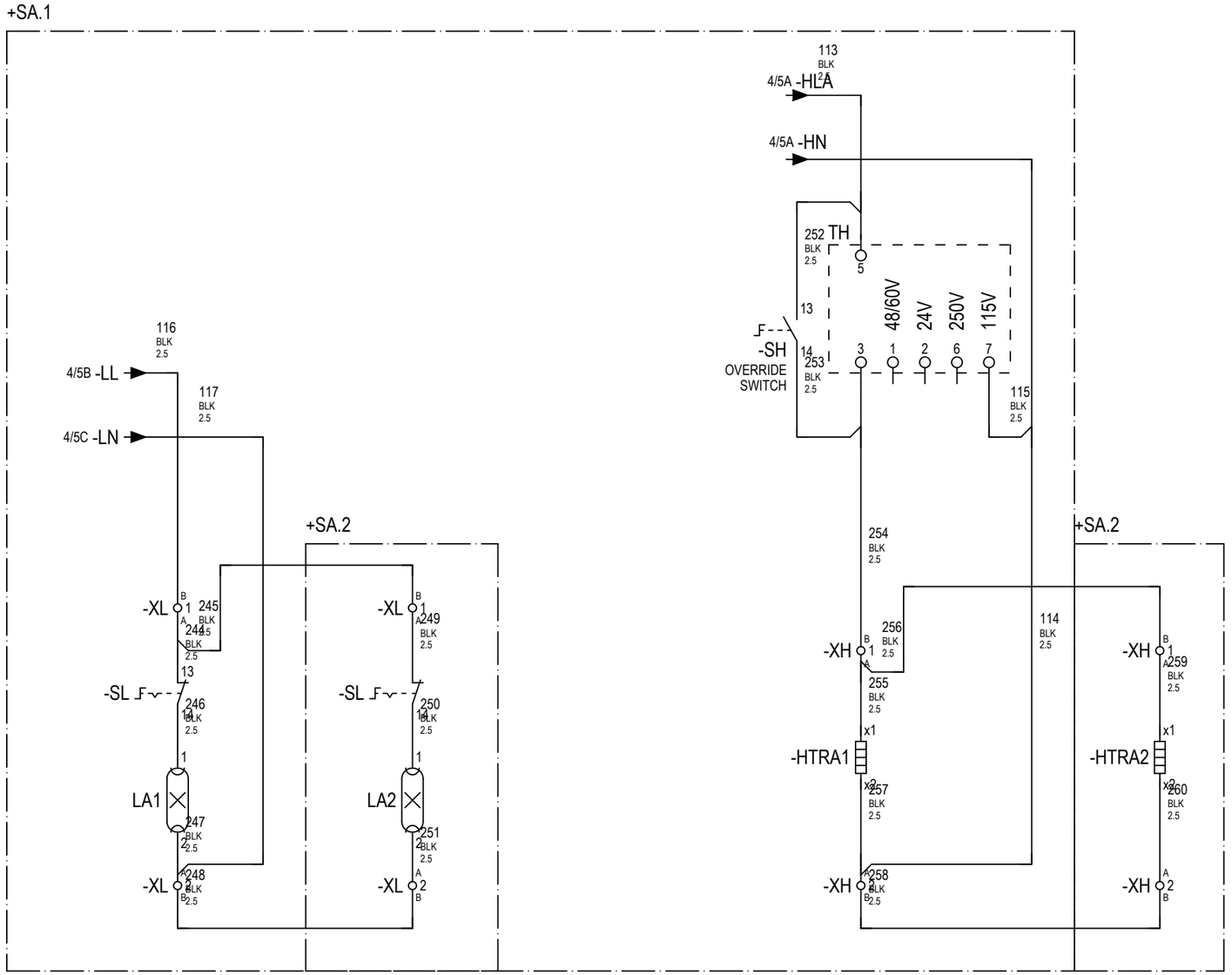

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نقل الكهرباء National Grid SA

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SPACE HEATER & LIGHTING CIRCUIT

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD - 289348	1 OF 7	01

CONTRACTOR : ABB CONTRACTING CO. LTD.

CUSTOMER : NATIONAL GRID - SAUDI ARABIA / SEC-COA

PROJECT : REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

CONTRACT NO. : -

PLANT NO. : C424

JOB ORDER NO.: 11131061/00

TITLE. : APPARATUS LIST

NEW 125V DC DISTRIBUTION BOARD

NOTES

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DRAWING CONTROL SHEET	CE - 289148
ONE LINE DIGRAM - DC AUXILIARY SYSTEM	CA - 289211
-	-
-	-

AS-BUILT BY _____ DATE _____

REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.
-	-	-	-	-	-	-
-	-	-	-	-	-	-
01	25.11.13	AMN	ISSUED FOR APPROVAL	BR	BR	DA
00	05.05.13	MAL	ISSUED FOR APPROVAL	BR	BR	DA

DRAWING COMPLETION CRTIFICATE (DCC):

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نقل الكهرباء National Grid SA

DRAWN BY M.AL-JAHANI CHECKED BY BHARATHIRAJA SCALE NTS

DATE STARTED 05.05.2013 DATE COMPLETED -

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COVER SHEET

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD - 289348	1 OF 7	01

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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD - 289348	2 OF 7	01

Apparatus List

SEC_Part_List

Device Loc.	Device Tag	Qty.	Function	Specification / Description	Type number	Manufacturer	Part/Order Number	Location
+SA.1	F11	1	INCOMER-1 DIGITAL METER SUPPLY FUSE	FUSE HOLDER 2P 32A 690V FOR 10.3X38mm FUSE	E 92/32	ABBFCL	2csm200883r1801	SHT. 3/4B
+SA.1	F11	1	INCOMER-1 DIGITAL METER SUPPLY FUSE	FUSE HRC 2A* 10X38	HRC 2A	LEGRAND	AE 5671 0003-02	SHT. 3/4B
+SA.1	HTRA1	1	CUBICLE SPACE HEATER	SPACE HEATER* 110-130V* 100W	SPACE HEATER	ROXIL	IPSAE 7010 2000-1A	SHT. 11/5C
+SA.1	LA1	1	CUBICLE LIGHTING STRIP	FLUORESCENT LAMP WITH PROT DIFFUSER	LAMP	INARA	ATAP 5912-01	SHT. 11/2D
+SA.1	P1	1	INCOMER-1 ANALOG AMMETER C/W SHUNT	DC AMMETER 0-100ADC*CL-1* 90DEG*96X96	DC AMMETER	CELSA	SEC-5697-117	SHT. 3/5A
+SA.1	P2	1	INCOMER ANALOG VOLTMETER	DC VOLTMETER 0-150VDC*CL-1* 90DEG*96X96	DC VOLTMETER	CELSA	SEC-5697-111	SHT. 3/5B
+SA.1	PTB	60	FEEDER POWER TB's	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 5/1D
+SA.1	PTB	30	FEEDER POWER TB's	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 5/1D
+SA.1	Q1	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/1C
+SA.1	Q1	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/1C
+SA.1	Q2	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/2C
+SA.1	Q2	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/2C
+SA.1	Q3	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/3C
+SA.1	Q3	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/3C
+SA.1	Q4	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/3C
+SA.1	Q4	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/3C
+SA.1	Q5	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/4C
+SA.1	Q5	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/4C
+SA.1	Q6	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/4C
+SA.1	Q6	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/4C
+SA.1	Q7	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/5C
+SA.1	Q7	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/5C
+SA.1	Q8	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 5/5C
+SA.1	Q8	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 5/5C
+SA.1	Q9	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 6/1C
+SA.1	Q9	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 6/1C
+SA.1	Q10	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 6/2C
+SA.1	Q10	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 6/2C
+SA.1	Q11	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 6/3C
+SA.1	Q11	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 6/3C
+SA.1	Q12	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 6/3C
+SA.1	Q12	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 6/3C
+SA.1	Q13	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 6/4C
+SA.1	Q13	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 6/4C
+SA.1	Q101	1	INCOMER-1 BREAKER	XT2N 160 TMA 63-630 3p F F	XT2N 160 TMA 63	ABB SACE	1SDA067016R1	SHT. 3/2D
+SA.1	Q101	1	INCOMER-1 BREAKER	AUX-C 3Q+1SY 250Vac/dc XT2..XT4 F/P	AUX-C 3Q+1SY	ABB SACE	1SDA066434R1	SHT. 3/2D
+SA.1	QH1	1	SPACE HEATER SUPPLY MCB	MCB 1P* 6A * Series: =S200* Charcteristic: =C	S201-C 6	ABBSTO	S 201-C6	SHT. 4/4A

NOTES

REFERENCE DRAWINGS

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DRAWING CONTROL SHEET	CE - 289148
ONE LINE DIGRAM - DC AUXILIARY SYSTEM	CA - 289211

AS-BUILT BY _____ DATE _____

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DATE STARTED 05.05.2013 DATE COMPLETED -

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APPARATUS LIST

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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Apparatus List

SEC_Part_List

Device Loc.	Device Tag	Qty.	Function	Specification / Description	Type number	Manufacturer	Part/Order Number	Location
+SA.1	QL1	1	CUBICLE LIGHTING SUPPLY MCB	MCB 1P* 4A * Series: =S200* Charcteristic: =C	S201-C 4	ABBSTO	S 201-C4	SHT. 4/4B
+SA.1	SH	1	THERMOSTAT OVERRIDE SWITCH	SEL. SW. 2 POS* SHORT* MAINTAINED* BLACK	M2SS2-10B	ABB_AB	1SFA 611 201 R1006	SHT. 11/4B
+SA.1	SH	1	THERMOSTAT OVERRIDE SWITCH	CONTACT BLOCK + HOLDER* 1NO	MCBH-10	ABB_AB	1SFA 611 605 R1101	SHT. 11/4B
+SA.1	SL	1	LIGHTING SWITCH	TOGGLE SW. 2 POS* MAINTAINED* BLACK	MTS1-10B	ABB_AB	1SFA 611 300 R1006	SHT. 11/2C
+SA.1	SL	1	LIGHTING SWITCH	CONTACT BLOCK + HOLDER* 1NO	MCBH-10	ABB_AB	1SFA 611 605 R1101	SHT. 11/2C
+SA.1	TH	1	SPACE HEATER THERMOSTAT	THERMOSTAT* 24* 48* 60* 115* & 230 V	THERMOSTAT	RITTAL	IPSSK 3110	SHT. 11/5B
+SA.1	XAL	2	ALARM CIRCUIT TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 6/5A
+SA.1	XAL	1	ALARM CIRCUIT TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 6/5A
+SA.1	XH	2	SPACE HEATER CIRCUIT TERMINAL BLOCKS	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 11/5C
+SA.1	XH	1	SPACE HEATER CIRCUIT TERMINAL BLOCKS	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 11/5C
+SA.1	XH1	2	CUBICLE HEATING CIRCUIT TERMINAL BLOCKS	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 4/4A
+SA.1	XH1	1	CUBICLE HEATING CIRCUIT TERMINAL BLOCKS	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 4/4A
+SA.1	XL	2	LIGHTING CIRCUIT TERMINAL BLOCKS	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 11/2C
+SA.1	XL	1	LIGHTING CIRCUIT TERMINAL BLOCKS	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 11/2C
+SA.1	XL1	2	CUBICLE LIGHTING CIRCUIT TERMINAL BLOCKS	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 4/4B
+SA.1	XL1	1	CUBICLE LIGHTING CIRCUIT TERMINAL BLOCKS	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 4/4B
+SA.1	XP1	2	EXTERNAL AUXILIARY POWER SUPPLY	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 4/3A
+SA.1	XP1	1	EXTERNAL AUXILIARY POWER SUPPLY	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 4/3A
+SA.1	XQ1	2	Q1 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/1B
+SA.1	XQ1	1	Q1 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/1B
+SA.1	XQ2	2	Q2 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/2B
+SA.1	XQ2	1	Q2 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/2B
+SA.1	XQ3	2	Q3 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/3B
+SA.1	XQ3	1	Q3 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/3B
+SA.1	XQ4	2	Q4 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/3B
+SA.1	XQ4	1	Q4 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/3B
+SA.1	XQ5	2	Q5 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/4B
+SA.1	XQ5	1	Q5 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/4B
+SA.1	XQ6	2	Q6 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/4B
+SA.1	XQ6	1	Q6 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/4B
+SA.1	XQ7	2	Q7 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/5B
+SA.1	XQ7	1	Q7 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/5B
+SA.1	XQ8	2	Q8 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 5/5B
+SA.1	XQ8	1	Q8 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 5/5B
+SA.1	XQ9	2	Q9 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 6/1B
+SA.1	XQ9	1	Q9 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 6/1B
+SA.1	XQ10	2	Q10 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 6/2B

NOTES

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DRAWING CONTROL SHEET	CE - 289148
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NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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Apparatus List

SEC_Part_List

Device Loc.	Device Tag	Qty.	Function	Specification / Description	Type number	Manufacturer	Part/Order Number	Location
+SA.1	XQ10	1	Q10 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 6/2B
+SA.1	XQ11	2	Q11 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 6/3B
+SA.1	XQ11	1	Q11 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 6/3B
+SA.1	XQ12	2	Q12 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 6/3B
+SA.1	XQ12	1	Q12 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 6/3B
+SA.1	XQ13	2	Q13 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 6/4B
+SA.1	XQ13	1	Q13 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 6/4B
+SA.1	XQ101	2	Q101 COMMON ALARAM TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 7/2B
+SA.1	XQ101	1	Q101 COMMON ALARAM TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 7/2B

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Apparatus List

SEC_Part_List

Device Loc.	Device Tag	Qty.	Function	Specification / Description	Type number	Manufacturer	Part/Order Number	Location
+SA.2	HTRA2	1	CUBICLE SPACE HEATER	SPACE HEATER* 110-130V* 100W	SPACE HEATER	ROXIL	IPSAE 7010 2000-1A	SHT. 11/6C
+SA.2	LA2	1	CUBICLE LIGHTING STRIP	FLUORESCENT LAMP WITH PROT DIFFUSER	LAMP	INARA	ATAP 5912-01	SHT. 11/3D
+SA.2	Q14	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 8/6C
+SA.2	Q14	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 8/6C
+SA.2	Q15	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/2C
+SA.2	Q15	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/2C
+SA.2	Q16	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/3C
+SA.2	Q16	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/3C
+SA.2	Q17	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/3C
+SA.2	Q17	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/3C
+SA.2	Q18	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/4C
+SA.2	Q18	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/4C
+SA.2	Q19	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/4C
+SA.2	Q19	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/4C
+SA.2	Q20	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/5C
+SA.2	Q20	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/5C
+SA.2	Q21	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/5C
+SA.2	Q21	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/5C
+SA.2	Q22	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 9/6C
+SA.2	Q22	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 9/6C
+SA.2	Q23	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/2C
+SA.2	Q23	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/2C
+SA.2	Q24	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/3C
+SA.2	Q24	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/3C
+SA.2	Q25	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/3C
+SA.2	Q25	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/3C
+SA.2	Q26	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/4C
+SA.2	Q26	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/4C
+SA.2	Q27	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/4C
+SA.2	Q27	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/4C
+SA.2	Q28	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/5C
+SA.2	Q28	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/5C
+SA.2	Q29	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/5C
+SA.2	Q29	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/5C
+SA.2	Q30	1	FEEDER BREAKER	MCB 2P* 20A * Series: =S280 UC* Charcteristic: =K	S282UC-K20	ABBSTO	S 282 UC-K20	SHT. 10/6C
+SA.2	Q30	1	FEEDER BREAKER	AUXILIARY + SIGNAL CONTACT	S2-S/H	ABBSTO	GHS2801901R0008	SHT. 10/6C
+SA.2	SL	1	LIGHTING SWITCH	TOGGLE SW. 2 POS* MAINTAINED* BLACK	MTS1-10B	ABB_AB	1SFA 611 300 R1006	SHT. 11/3C

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE - 289148
ONE LINE DIGRAM - DC AUXILIARY SYSTEM	CA - 289211

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REINFORCEMENT OF EXT. 132/33KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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Apparatus List

SEC_Part_List

Device Loc.	Device Tag	Qty.	Function	Specification / Description	Type number	Manufacturer	Part/Order Number	Location
+SA.2	SL	1	LIGHTING SWITCH	CONTACT BLOCK + HOLDER* 1NO	MCBH-10	ABB_AB	1SFA 611 605 R1101	SHT. 11/3C
+SA.2	XAL	2	ALARM CIRCUIT TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 8/2A
+SA.2	XAL	1	ALARM CIRCUIT TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 8/2A
+SA.2	XH	2	SPACE HEATER CIRCUIT TERMINAL BLOCKS	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 11/6C
+SA.2	XH	1	SPACE HEATER CIRCUIT TERMINAL BLOCKS	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 11/6C
+SA.2	XL	2	LIGHTING CIRCUIT TERMINAL BLOCKS	TERMINAL M6/8* RS GREY	M6/8.RS	ABB ENTRELEC	1SNA115685R1200	SHT. 11/3C
+SA.2	XL	1	LIGHTING CIRCUIT TERMINAL BLOCKS	END SECTION* FEM R8	FEM R8	ABB ENTRELEC	1SNA116987R0200	SHT. 11/3C
+SA.2	XQ14	2	Q14 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 8/6B
+SA.2	XQ14	1	Q14 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 8/6B
+SA.2	XQ15	2	Q15 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/2B
+SA.2	XQ15	1	Q15 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/2B
+SA.2	XQ16	2	Q16 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/3B
+SA.2	XQ16	1	Q16 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/3B
+SA.2	XQ17	2	Q17 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/3B
+SA.2	XQ17	1	Q17 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/3B
+SA.2	XQ18	2	Q18 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/4B
+SA.2	XQ18	1	Q18 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/4B
+SA.2	XQ19	2	Q19 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/4B
+SA.2	XQ19	1	Q19 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/4B
+SA.2	XQ20	2	Q20 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/5B
+SA.2	XQ20	1	Q20 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/5B
+SA.2	XQ21	2	Q21 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/5B
+SA.2	XQ21	1	Q21 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/5B
+SA.2	XQ22	2	Q22 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 9/6B
+SA.2	XQ22	1	Q22 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 9/6B
+SA.2	XQ23	2	Q23 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/2B
+SA.2	XQ23	1	Q23 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/2B
+SA.2	XQ24	2	Q24 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/3B
+SA.2	XQ24	1	Q24 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/3B
+SA.2	XQ25	2	Q25 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/3B
+SA.2	XQ25	1	Q25 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/3B
+SA.2	XQ26	2	Q26 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/4B
+SA.2	XQ26	1	Q26 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/4B
+SA.2	XQ27	2	Q27 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/4B
+SA.2	XQ27	1	Q27 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/4B
+SA.2	XQ28	2	Q28 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/5B
+SA.2	XQ28	1	Q28 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/5B

NOTES

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DRAWING CONTROL SHEET	CE - 289148
ONE LINE DIGRAM - DC AUXILIARY SYSTEM	CA - 289211

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00	05.05.13	MAL	ISSUED FOR APPROVAL	BR	BR	DA

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Apparatus List

SEC_Part_List

Device Loc.	Device Tag	Qty.	Function	Specification / Description	Type number	Manufacturer	Part/Order Number	Location
+SA.2	XQ29	2	Q29 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/5B
+SA.2	XQ29	1	Q29 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/5B
+SA.2	XQ30	2	Q30 FEEDER TERMINAL BLOCKS	TERMINAL* M 4/6.RS* STNS* GREY	M 4/6.RS STNS	ABB ENTRELEC	1SNA115229R2000	SHT. 10/6B
+SA.2	XQ30	1	Q30 FEEDER TERMINAL BLOCKS	END SECTION* FEM6 FOR M4/6	FEM6	ABBFCL	1SNA118368R1600	SHT. 10/6B

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